

## 10TH STREET SITE

NEBRASKA

EPA ID# NED981713837

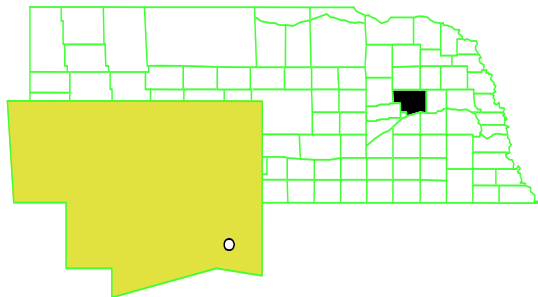
EPA Region 7

City: Columbus

County: Platte County

Other Names: Columbus Public Water  
Supply

11/23/2005



## SITE DESCRIPTION

The 10th Street Site consists of contaminated municipal wells located in the City of Columbus. Sampling by EPA and the state revealed the presence of volatile organic compounds (VOCs) in the municipal drinking water supply wells. Sampling of the ground water in areas surrounding the municipal well fields show VOCs in the aquifer underlying commercial and residential areas of the city as a result of dry cleaner activities. The city's water distribution system provides drinking water to approximately 19,000 people. The water supply is tested by the state and consistently meets the Safe Drinking Water Act (SDWA) limits for public water supplies.

### Site Responsibility:

This site is being addressed through Federal actions.

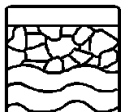
### NPL LISTING HISTORY

**Proposed Date:** 10/26/89

**Final Date:** 08/30/90

**Deleted Date:**

## THREATS AND CONTAMINANTS



The ground water serving municipal wells is contaminated with the VOCs tetrachloroethylene (PCE) and trichloroethylene (TCE). PCE and TCE are found in the soils at some locations and volatilize to form vapors which can be trapped in

soils and underground structures. People could be exposed to these contaminants through the use of water from contaminated wells and breathing air in confined spaces. At this time, the use of water from private wells should be discouraged. Air sampling that has been conducted recently does not indicate an exposure problem.

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## **CLEANUP APPROACH**

### **Response Action Status**

Entire Site: The EPA completed a Record of Decision (ROD) document in 1995 that selected institutional controls and ground water monitoring with a contingency as the remedy for the site. The city finalized an ordinance with the goal of eliminating the use of private wells in the area of groundwater contamination in October 2003. The ground water monitoring conducted pursuant to the 1995 ROD determined that additional investigation was required to delineate an additional source of contamination. Current efforts are directed toward addressing the groundwater contamination and protecting the city's south wellfield. In order to address this contamination, EPA implemented a removal action in January 2000 and finalized an interim action ROD in September 2001. The air sparging/soil vapor extraction (AS/SVE) system which was constructed as part of the removal action is still in operation. The remedy required by the interim action ROD included a groundwater extraction and treatment (GET) system. Construction of the GET system was completed in February 2004 and began operation in April 2004 with discharge of the treated water to the storm sewer. In May 2005, the GET system began providing treated water to the city's municipal water supply system. In the summer of 2005, extraction of the GET system was modified by the addition of a fourth extraction well. In September 2005, the EPA issued a final ROD that included continued operation of the AS/SVE and GET systems, limited action for the soils in two of the source areas, and chemical oxidation in the groundwater contaminant plume.

### **Description:**

### **Site Facts:**

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## ENVIRONMENTAL PROGRESS



After adding this site to the NPL, the EPA performed preliminary investigations and determined that no immediate actions were required at the 10th Street Site while cleanup remedial investigation was being performed.

The EPA completed its fourth round of ground water sampling required by the 1995 ROD in April 1998 which indicated an additional source of contamination located about 1/2 mile upgradient from the initial site. The results of this sampling effort have been provided to the Nebraska Department of Health, the Nebraska Department of Environmental Quality and the city of Columbus, Nebraska.

The EPA conducted a removal action at the primary contamination source area. The removal action consists of an air sparging/soil vapor extraction (AS/SVE) system which was installed in October 2000 to address soil and ground water contamination. In addition, the city has taken one city supply well out of service and continues to blend water from the other south wellfield wells to assure that the finished water provided to the public is below the MCLs. The EPA designed and constructed a groundwater extraction and treatment (GET) system pursuant to an interim remedial action ROD issued in September 2001. In addition to intercepting the ground water contamination, the GET utilizes the city well taken out of service as an extraction well and provides treated water to the city's water supply system. The GET system has been in operation since April 2004. In September 2005, EPA issued a final ROD that includes continued operation of the GET and AS/SVE systems, limited action for the soils in two of the source areas, and chemical oxidation in the contaminant plume.

In September 2005, EPA completed the second Five-Year Review for the site. Based on an evaluation of available information, EPA believes the cleanup actions conducted at the site continue to be protective of human health and the environment.

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## COMMUNITY INVOLVEMENT

A public availability session was held in August 2003 prior to the commencement of construction of the interim Remedial Action. EPA issued a Fact Sheet in March 2004 in regard to an investigation of a former manufactured gasification plant (fmgp) site. The March 2004 Fact Sheet included an update of activities at the 10th Street Site. The October 2004 Fact Sheet announced that EPA would sample Indoor Air. The July 2005 Fact Sheet announced the Proposed Plan and Public Meeting for OU2. A display ad ran in the Columbus Telegram announcing the Public Meeting. The Public Meeting was held 7/20/05, in order to take comments on the Proposed Plan. The ROD was signed 9/29/05. A September 2005 Fact Sheet Announced the Record of Decision Issued and also announced the Completion of the second 5-year review. Ads ran in the Columbus Telegram announcing the 5-year review completion and the ROD being issued.

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## SITE REPOSITORY



Columbus Public Library  
2504 Fourteenth Street  
Columbus, NE

Superfund Records Center  
901 N. 5th St.  
Kansas City, KS 66101  
Mail Stop SUPR  
(913)551-4038

## REGIONAL CONTACTS

**SITE MANAGER:** Nancy Swyers  
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**COMMUNITY INVOLVEMENT  
COORDINATOR:** Beckie Himes  
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**STATE CONTACT:** Adrienne Rygel  
**PHONE NUMBER:** (402) 471-6411

## MISCELLANEOUS INFORMATION

**STATE:** NE  
07CS  
**CONGRESSIONAL DISTRICT:** 03  
**EPA ORGANIZATION:** SFD-EPA - REGION 7

## MODIFICATIONS

<b>Created by:</b>	Suping Chang/SUPR/R7/USEPA/U S	<b>Created Date:</b>	05/28/98 03:45 PM
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